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PRESIDENT'S GREETINGS

January 5, 2007

Dear Friends and Colleagues:

Greetings from the beautiful Tsing Hua campus! As we enter a new year, may I wish you and your family a happy and prosperous 2007.

As one of the premier research universities in Taiwan, we are working toward the goal of becoming a world-class university in the foreseeable future. A concerted strategic plan for the university development was proposed and supported by the Ministry of Education with the Special Funds for upgrading Taiwan's higher education. One of the measures we are undertaking is to improve our communication with you, dear friends and colleagues who are concerned with the development of Tsing Hua. It is toward this goal that I have asked my staff to issue this Tsing Hua Newsletter and I am very happy that the first issue is here to be presented to you, thanks to the efforts of the able editorial team led by Prof. Mao-Jiun Wang. Our plan is to issue the Newsletter quarterly and hope to update you with what has happened during the previous few months as well as what will take place in the near future. I hope the Newsletter will not only keep you informed on what my colleagues and students are doing but also to invite your feedbacks so that we can further enhance the growth and development of the University! Feel free to write me or the editor of the Newsletter if you have anything that you would like us to know and hope this new bridge will keep us in close contact with each other.

Happy New Year!

Wen-Tsun Chen

President, National Tsing Hua University
The Convocation of Academician at the Academia Sinica meets annually to select new members to join this prestigious academic body. Academician of the Academia Sinica is the highest academic honor in Taiwan granted to scholars who excel in their respective fields of research. The Convocation of Academicians met in June, 2006 to review the credentials of nominees and then the nominees were presented to all Academicians to cast their votes. The election result was a great news to National Tsing Hua University. Four out of fifteen newly elected Academicians are members of the Tsing Hua family.

FOUR ELECTED AS ACADEMICIANS OF THE ACADEMIA SINICA

Dr. Lih-Juann Chen, Distinguished Chair Professor of Material Science and Engineering

Dr. Yi-Long Huang, Distinguished Chair Professor of History

Dr. Sow-Hsin Chen, Distinguished Professor of Nuclear Science and Engineering at MIT and a graduate of the Institute of Nuclear Science, National Tsing Hua University in 1959

Dr. Shih-I Chu, Chair Professor at the Department of Chemistry, University of Kansas and Distinguished Alumnus of College of Science, National Tsing Hua University (2005)

Dr. Yi-Long Huang, Distinguished Chair Professor of History

Dr. Sow-Hsin Chen, Distinguished Professor of Nuclear Science and Engineering at MIT and a graduate of the Institute of Nuclear Science, National Tsing Hua University in 1959
The winners of National Chair Professorships and Academic Awards of the Ministry of Education were announced on September 5th, 2006. This year the award committee selected ten National Chair Professors which included three from National Tsing Hua University. They are: Professor Yi-Long Huang of the Institute of History, Professor Jing Yu of the Department of Mathematics, and Professor Ging-Ho Hsiue of the Department of Chemical Engineering. In addition, Professor Yun Chi of the Department of Chemistry was also selected as one of the twelve recipients of the Academic Awards. Among the National Tsing Hua University professors who were honored by the Ministry of Education, Professor Jing Yu specializes in Number Theory, and Algebraic Geometry. Professor Yi-Long Huang’s specialty is History of Science and Technology, History of China-Europe Communication, and History of Astronomy and Calendars. Professor Ging-Ho Hsiue specializes in Polymer Science and Bioengineering, and Professor Yun Chi’s specialty is in Organometallic Chemistry and OLED.
The new President of Academia Sinica made his first university visit to Tsing Hua campus on October 21st, 2006. As one of the top research universities in Taiwan, NTHU has been in cooperation with Academic Sinica for many years. Joint research projects link up university faculty members with research fellows at Academia Sinica. Additionally, NTHU is the first university to set up joint graduate degree programs with research institutes at Academia Sinica for both domestic and international students.

Currently NTHU and Academia Sinica are jointly offering five graduate degree programs for domestic students, these include: Chinese Studies, Contemporary China and Pluralism; Structural Biology; Bioinformatics as well as Austronesian Languages. For international students, the cooperative graduate programs include: Bio-chemistry, Molecular Biophysics, Molecular Science and Technology, Bioinformatics, Nano Science and Technology, Computational Linguistics and Chinese Language.

During his visit, President Wong was briefed by Vice President Shih-Lin Chang and other university administrators on NTHU’s development strategies to upgrade National Tsing Hua University to a world-class university.
THE UNIVERSITY DEVELOPMENT ADVISORY COMMITTEE MET TO SKETCH A BRIGHT FUTURE FOR TSING HUA

The first meeting of the University Development Advisory Committee was held on October 22nd, 2006 on the Tsing Hua campus. President Wen-Tsuen Chen chaired the meeting which included former presidents of Tsing Hua, Academicians from Academia Sinica and distinguished business and enterprise leaders. They were: Professor Chao-Shiuan Liu, President of Soochow University; Professor Ching-Wu Chu, President of Hong Kong University of Science and Technology; Dr. Kenneth K. Wu, President of the National Health Research Institute; Dr. Johnsee Lee, President of Industrial Techology Research Institute. Drs. Ovid J. L. Tseng, Chung-Laung Liu, Mu-Ming Poo, Yih-yuan Li, Academicians of Academia Sinica; and Mr. Cheng Tsong-hua, President of the Delta Electronic Inc.

Vice President of Academic Affairs, Professor Shih-Lin Chang presented, in the meeting, the Tsing Hua University’s strategies to become a world-class university with top research centers. Topics detailed in this plan include: resource integration, improvement of teaching and research environments, internationalization of Tsing Hua and the cultivation of future leaders for the society. Vice President of Operation, Professor Ming-Chuen Yip reported on the improvement of university infra-structure and the recent organizational adjustment. Dean Hwai-pwu Chou of Academic Affairs also reported on the new strategies to upgrade teaching and further internationalization.

After hearing from the university administrators, the Advisory Committee was also briefed by the Deans of all seven colleges on their respective plans to advance their departments, institutes and research centers. All these reports are integrated pieces of well planned strategies to take the University upward and towards the status of a world-class university.

Some members of the University Development Advisory Committee
On September 26th, 2006, President Chen led a delegation including Professor Chung-min Chen, Chief Executive Officer of the University Center of International Affairs and Professor Hsiao-Wei Chiang, Director of the Division of Academic Cooperation to Pohang University of Science and Technology (POSTECH), Korea where they attended the Annual Meeting of the Presidents of the Association of East Asian Research Universities (AEARU) and signed an agreement of academic exchange and cooperation with POSTECH.

AEARU is an organization formed to promote cooperative efforts among its member universities. Members include: National Tsing Hua University, National Taiwan University, Seoul National University, Korea Advanced Institute of Science and Technology as well as POSTECH. In addition to the universities from Taiwan and Korea, there are five universities from China, one from Hong Kong and another five from Japan. To promote further cooperation among member universities, detailed plans were proposed and discussed. These include the sharing of academic information and strategies to upgrade AEARU members’ standing in the ranking of universities worldwide.

In addition to attending the AEARU meeting, President Chen and the delegation also visited Seoul National University accompanied by the Director of Taipei Mission in Korea, Mr. Yeong-Cho Chen. The meeting was concluded with the signing of a Memorandum of Understanding and a Student and Staff Exchange Agreement by President Chen and his counterpart, President Jang-Moo Lee of the Seoul National University.

With the signing of these new agreements with Seoul National University and POSTECH, and the existing agreement with KAIST, National Tsing Hua University has established cooperative and exchange relationships with three of the top institutes in Korea. We expect these agreements will open the way to future joint research projects as well as student exchanges between Taiwan and Korea.
National Tsing Hua University’s College of Technology Management annually sponsors the Sun Yun Suan Memorial Lecture Series on Science and Technology. The Lecture Series of 2006 had the honor of including two Nobel Laureates: Dr. Ivar Giaever, recipient of the Nobel Prize in Physics in 1973, and Dr. Thomas C. Schelling, recipient of the Nobel Prize in Economics in 2005.

Dr. Ivar Giaever delivered two lectures while visiting Tsing Hua. The first was held in the Biomedical Engineering and Environmental Science Building. President Wen-Tsuen Chen gave the opening remarks to officially launch the Lecture Series. The lecture presented Dr. Giaever’s Electric Cell-Substrate Impedance Sensing (ECIS) System and the experience of his research team. The ECIS is a system that uses the change of electric current to observe the condition of culturing cells.

The second lecture was held in the College of Technology Management and the Chairman of Delta Electronic, Inc., Dr. Cheng gave the opening remarks. In this lecture, Dr. Giaever discussed the research on tunneling phenomena in superconductors for which he won the 1973 Nobel Prize in Physics.

It is hard to imagine that Dr. Ivar Giaever had a hard time passing Physics and Mathematic classes in his early college years. However, in his own words, he continues to break self-limitation, and this attitude offers much inspiration to the audience.

Dr. Giaever’s first speech was followed by a lecture given by Dr. Thomas C. Schelling. Dr. Schelling, the 2005 Nobel Prize winner in Economics, is the inventor of the Game Theory Strategy of Brinkmanship. His topic was The Prospects for a Quiet Nuclear Future. Dr. Schelling has taught at Harvard and Yale. He was a member of a consultation group that formulated the Marshall Plan for rebuilding Europe after World War II. He worked in the White House and the Executive Office of the President, and also served as a member of the RAND Corporation.

Welcome Dr. Ivar Giaever/Diplomat Prize in Physics
CLSI, CNS & GTPH in NTHU 10.25.2008

Dr. and Mrs. Ivar Giaever, President Wen-Tsuen Chen, and faculty members
Although this has been Dr. Schelling’s first visit to Taiwan, he demonstrated his knowledge of Taiwan history by showing how the military tension between Taiwan and Mainland China in the 1950s were resolved and used such examples to illustrate his theory of brinkmanship. In his speech he emphasized how the balance of terror has kept peace over the past 60 years and will continue to do so in the future. Additionally, Dr. Schelling stressed that if we learn how to utilize the opportunities conflicts provide, we shall be able to resolve such conflicts without going to war. Dr. Schelling’s Brinkmanship Theory has been applied to other real problems, such as the development of war strategies, weapon limitation, energy crisis and environmental protection, anti-terrorism and anti-organized crime efforts, as well as conflicts and negotiations etc. Dr. Schelling has opened a new direction of thinking about some troublesome problems Taiwan is currently facing such as defense procurement, conflicts between Taiwan and Mainland China, domestic political difficulties, and nuclear testing in North Korea. His lecture aroused passion and generated heated discussion following the lecture.

The 44th Outstanding Young Persons Awards have been announced. Out of the ten recipients nationwide, three are from National Tsing Hua University. These three distinguished youth are Dr. Hsiao-how Lin, Associate Professor at the Department of Physics, Dr. T. A. Hsu, Associate Professor from the Department of Chemical Engineering, and Mr. Hsiao-Ping Li, a graduate student pursuing his doctoral degree in Computer Science and Information Technology. What is most inspiring and gratifying is not only that Tsing Hua faculty and student have won three out of the ten Awards this year, but the fact that Mr. Li excels in his study program despite of his visual impairment.

CONGRATULATIONS!
CONGRATULATIONS TO PROFESSORS HSIAO-HOW LIN, T. A. HSU, AND MR. HSIAO-PING LI FOR WINNING THE OUTSTANDING YOUNG PERSONS AWARDS

The Ten Outstanding Persons Award has been presented by the Taiwan Junior Chamber of Commerce annually since 1962. Each year the Chamber receives nomination from the public and organizes a review committee to select ten recipients for this prestigious award. Each recipient is presented with a certificate and a Gold Hand Statue symbolizing their creativity and ingenuity. The stories of their outstanding achievements are widely circulated in media not only to give the recipients their due recognition but also to serve as models for other young people in the nation.
The National Tsing Hua University Innovation Incubation Center was established in 1998. It is a joint project between the Office of Research and Development at Tsing Hua University and the Small and Medium Enterprise Administration of the Ministry of Economic Affairs. Together they work to implement a national plan aiming at assisting the development of small and medium sized enterprises in Taiwan. This group of experienced consultants, not available anywhere outside of the University, help new enterprises reduce risk and increase their probability of success without incurring a great cost. By making the human resources and research expertise of the University available to the public, this plan has successfully assisted the start up of many small and medium enterprises. Over the past years, the Incubation Center has received five A-Level annual evaluations from the Small and Medium Enterprise Administration. Four of these A-Level Awards were won in consecutive years and, in recognition of such stellar records, the Center was honored with an Outstanding Achievement Award in 2006.

The Center is located on Tsing Hua campus and in the neighborhood of the Hsinchu Science-Based Industrial Park. Such prime location provides easy access to the resources and facilities of these two powerhouses of research and development. The Center offers training courses in the areas of management, finance, marketing, international business, law and regulation as well as information management. Professional industrial consultation and business analysis are also offered whenever needed. Recently, a new project focusing on the practical training of managers is being offered in an effort to help companies resolve problems in recruitment as well as providing our students with opportunities to apply what they have learned in the business classes to real life situations. The 67 small and medium enterprises the NTHU Incubation Center has assisted include: Gemteck (listed company), Aoptek (listed company), Aiptek Technologies, Key Wear Group, Net Keeper Eulen, Twinhan Technology and Advanced Analog Technology Inc. The Center is continuously upgrading its services and expects to serve more and more start-up enterprises as Taiwan’s industries move forward.
As the University develops into an international institution, Tsing Hua is hosting an increasing number of international academic conferences each year. More and more international scholars travel to our campus, either as short term visitors or as new faculty members joining the University. In addition, many alumni are coming back to visit. All these have prompted the University to build a new guest house.

Located on the west campus, the new Tsing Hua Guest House, opened for business in last September, is designed to accommodate long term residents as well as short term visitors. New international faculty members can stay in the apartments before they get settled in a more permanent arrangement. Short term visitors, returning alumni, and conference participants are welcomed to stay at the guest house where comfortable rooms and breakfast are made available at a very reasonable price and in a cozy environment.
On Friday, December 22nd, 2006, President Wen-Tsuen Chen hosted the grand opening of the new International Student Activity Center (ISAC) in the FengYun Building on the Tsing Hua campus. Opening of the ISAC is part of NTHU’s continuing efforts to enhance Tsing Hua’s internationalization. Its purpose is to facilitate education across different cultures, foster mutual respect and understanding among members of the global community. The Activity Center, located on the 3rd Floor of the FengYun Building provides a cozy environment for students, local and international alike, to meet, study, relax, schedule activities, and entertainment.

Friday’s opening featured three dance performances, two organized by the Foreign Student Association and one performed by members of the NTHU World Folk Dance Club. The stage performance was followed by a cocktail hour, which provided opportunity for reporters and guests to mingle with some of Tsing Hua’s international students and familiarize themselves with the facilities. Foreign students from Indonesia, Malaysia and United States prepared dishes from their home countries for attendees to sample.